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UTILITY PATENT APPLICATION TRANSMITTAL
(for Noncontinuing, Nonprovisional
Applications under 37 C.F.R. §1.53(b))

Attorney Docket No. 68050



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Transmitted herewith for filing
under 37 C.F.R. §1.53(b) is the
nonprovisional, noncontinuing
patent application for:

Title: DEVICE AND METHOD FOR INSTALLING
BUILDING MATERIAL

First Named Inventor or
Application Identifier: Richmond

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November 27, 2000

(Date)

A handwritten signature in dark ink, appearing to read 'James P. Krueger', written over a horizontal line.

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Registration No. 35,234

DEVICE AND METHOD FOR INSTALLING BUILDING MATERIAL

The present invention relates to installation of
5 building materials, and more particularly, to devices
that temporarily secure building materials, either
overhead or on walls, until the installer can permanently
secure the material into position

BACKGROUND

10 The burdensome task of installing building
materials, such as drywall, is usually cumbersome and
labor intensive. The process of installing these large,
cumbersome and heavy drywall sheets for covering walls
and ceilings usually has been assigned to two or more
15 people. In order to correctly install drywall as ceiling
sheets or wall sheets, the drywall sheets must first be
lifted and placed into the desired position. With the
drywall sheet being supported by at least one person, a
second person must then secure the drywall sheet to the
20 overhead joists or wall joists via a means of attachment,
one of the more common ways being with screws. Usually
screw guns are employed to speed up the process. While a
minimum of two people are usually desired for this
particular job, sometimes one person is left to
25 accomplish this task all by themselves. This usually
involves the installer balancing the panel on his head
and/or using a tee bar (a tee bar is usually constructed
from two pieces of 2" x 4" wood with the vertical leg
being 2" to 3" longer than the height of the ceiling) to
30 free his hands in order to apply the means of attachment
to attach the sheet of drywall to the structure. This
practice is dangerous, leaves little room for adjustments
and potentially adds to the amount of scrapped material.
Therefore, there is a need for an invention which can

temporarily hold a drywall sheet or other building materials in place while the installer is able to do final adjustments to the location and permanently secure the panel to the supporting joists.

5 One example of a device for aiding in the installation of drywall sheets and other building materials is described in U.S. Patent Number 5,366,329. This patent describes a rotatable device having an integral "Z" shaped body is used to temporarily hold the
10 drywall panel to the ceiling. This device is only capable of being rotated and does not have the option to be locked in a secure position. This causes a problem if the drywal sheet needs to be adjusted to properly fit into the desired position. Likewise, a problem exists
15 when abutting one piece of dry wall next to another. Hence, an installer using the device still requires a minimum of one hand to hold the dry wall in place while the other secures it to the ceiling joists. Further, the device requires multiple components to manufacture it in
20 its simplest form and requires the use of a relatively expensive shoulder screw. With frequent use of the shoulder, the screw head strips, requiring disassembly of the device to replace the screw.

Another device used to facilitate the installation
25 of building materials is described in U.S. Patent Number 5,002,446. This patent describes an overhead support device with an angled surface and widened edges. A tapered screw is embodied inside the housing which is used to secure the support device to the ceiling joists.
30 The panel rests in the gap between the ceiling joist and the top of the housing. However, this device needs to be manually screwed in which is labor intensive, strenuous and time consuming. Furthermore, this device has the ability to possibly damage the building material when it
35 is adjusted into its final position.

Therefore, there exists a need for an apparatus, device, or devices that can be quickly attached to a support structure, such as a ceiling or wall joist, that can be used in multiple surroundings to facilitate the
5 installation of building materials which reduces the effort, the number of people needed to perform the task and preferably leaving both hands free to secure the material.

SUMMARY

10 The present invention provides an effective and convenient apparatus, devices and/or system for installing building materials either on ceilings or on walls. The apparatus and/or devices allows one individual on his own to install building materials. The
15 invention eliminates the need for one or more persons holding the drywall in place while an initial means of attachment is applied to hold the sheet of drywall in place, thus, allowing an installer to remove the support of their head, or lower their arms. Further, while a
20 first installer is using the devices of the present invention, an additional person(s) can be securing more devices or moving the existing devices in order to be ready to apply the next sheet of drywall. The devices of the present invention provide hands free operations and
25 simplify the job for a 'do it yourself' (D.I.Y.) individual or homeowner while eliminating the need to enlist the help of a friend or friends in order to lift the sheet of drywall and hold it in place until the initial means of attachment are in place or rental of a
30 drywall lift. The use of the devices of the present invention gives individuals who do not normally do strenuous work the ability to relatively simply apply drywall on their own, the only requirement is being their ability to lift a sheet of drywall without help.

In accordance with the present invention, the apparatus for installing building materials includes at least one resting surface 50 spaced apart from a fastener. Further in accordance with the present invention, the devices of the invention are first positioned adjacent to where an installer would like to install the building material. The apparatus of the present invention is attached to an existing structure. Once the apparatus of the invention is attached, the installer may then position a section of building materials so that it contacts a resting surface 50. Contacting the resting surface may be further facilitated with the use of a guide surface 70. The building material is then positioned and may be further secured with another device of the apparatuses and /or device of the invention.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows a device for supporting building material during installation prior to securing it in its final location, with two resting surfaces and a feature to facilitate mounting the device.

Figure 2 illustrates a similar device to Figure 1 for supporting building material during installation prior to securing it in it's final location, with two resting surfaces, one of the resting surfaces being an extension of the surface that is the adjacent mounting surface and a feature to facilitate mounting the device.

Figure 3 shows a similar device to Figure 1 with the added feature of a larger target for guiding the material onto the resting surface.

Figure 4 shows a similar device to Figure 1 with the added feature of a means of mounting the device onto a clamp.

Figure 5 illustrates a similar device to Figure 2 formed in metal, or a composite or molded into a more streamlined part.

Figure 6 shows a similar device to Figure 1 formed in metal, or a composite, or molded with the added feature of an anti-rotational feature and a place to attach a means of adding a location feature, to reduce the time to mount the device.

Figure 7 illustrates a portion of the device of Figure 6 with the added feature of an adjustable support.

Figure 8 shows a similar device to Figure 1 with the added feature of an anti-rotational device.

Figure 9 shows a device similar to Figure 6 illustrating a clamp as an integral part with the device of the invention for use when installing building material to metal joists.

Figure 10 illustrates a device similar to Figure 6 illustrating a clamp as an integral part with the device of the invention.

Figure 11 shows a device similar to Figure 4 shown in combination with a "c"-clamp.

Figure 12 shows a device similar to Figure 4 shown in combination with a quick-grip bar clamp.

Figure 13 illustrates a device similar to Figure 3 illustrating a bar clamp as an integral part of the device of the present invention.

Figure 14 shows a device similar to Figure 4 in combination with a Jorgesen clamp.

Figure 15 shows a device similar to Figure 4 in combination with a Pony clamp.

Figure 16 is a view showing two styles of device in location ready to accept a sheet of building material.

Figure 17 is a view showing an installer using a rule to mark the location to mount one of the devices.

Figure 18 is a view showing an installer using a flexible feature for locating the location to mount a clamp style device.

Figure 19A, B, C, & D shows a method for installing
5 a sheet of building material overhead by one or more installers.

Figure 20 shows a method of mounting a sheet of building material to a wall.

Figure 21 shows one style of device having a cam
10 action feature for raising a sheet of building material on a wall.

Figure 22 shows another style of the device with another style of cam action.

Figure 23 shows one of the devices of Figure 7 in
15 use as an extra set of hands during the framing out of duct work.

Figure 24 shows two of the devices of Figure 2 in use as an extra set of hands during the installation of a tongue & grooved ceiling.

20 Figure 25 shows a similar device to Figure 5 with two sets of the same guide and resting surfaces, with one set being a distance from the surface that is adjacent to the building material surface.

Figure 26 shows an adjustable tee-bar for assisting
25 in the application of building materials.

Figure 27 shows another feature of the device in that spacer pads can be added to the surface adjacent to the building material surface in order to vary the spacing whereby different thickness' of building
30 materials can be installed.

Figure 28 shows that the device can also be readily adapted for installation of building materials parallel to the ceiling joists.

DETAILED DESCRIPTION

The apparatus of the present invention is effective for installing building materials either overhead or on walls. As used herein the term "building materials"

5 includes sheet drywall; paneling, sheet or plank; insulation board, plywood, siding, tongue and grooved planks, framing out of duct work, any form of wood sheet, wood composite sheet, rigid plastic sheet, plastic laminated sheet, expanded plastic (foam sheets), and, any
10 other form of sheet material or planking.

The apparatus of the present invention may be made of a variety of materials including wood, metal, plastic and combinations thereof. The devices shown in Figures 1 through 4 and 8 would generally and more appropriately be
15 made of wood; molded in plastic; molded in a filled plastic; a powdered metal or cast in metal and the devices shown in Figures 5 through 7 would generally and more appropriately be made of metal; filled plastic; plastic or powdered metal. If the device as shown in 5
20 through 7 was made in plastic then a person skilled in the art would probably include a support web for both extended target surfaces 76 and 77 running at an angle from a point on the back of the surfaces to the underside of surface 50 and/or the underside of adjacent mounting
25 surface.

Several important aspects of the apparatus of the present invention are shown in Figures 1-3. As shown in Figure 1, a device of the apparatus of the present invention 20 includes a resting surface 50 spaced apart
30 from a fastener. As used herein, "fastener" may include at least one fastener opening 60 used in combination with a fastener component as described below; a device having a means of attaching a clamp to the device as shown in Figures 11, 12 and 14; a clamp as an integral part of the
35 device as shown in Figure 9, 10, 13 and 15; and various combinations thereof.

In another aspect, the apparatus of the invention may further include a second resting surface 55, as shown in Figures 1 through 6 or a shortened resting surface 75 as shown in Figures 1, 2 and 4. In its basic form, the device of the invention only requires one resting surface, however, a second resting surface provides a user with added versatility at low cost.

Either one or both of resting surface 50 and second resting surface 55 may include a guide surface 70, a second continuous guide surface 76, an elongated continuous guide surface 77, a detachable guide surface 78, and combinations thereof. The guide surface 70, second continuous guide surface 76, and continuous elongated guide surface 77 may be continuous with the resting surface 50 and/or the second resting surface 55. In one aspect of the invention, the second resting surface 55 includes a continuous elongated guide surface 77, associated with it for use when putting sheeting on walls or cathedral ceilings.

In alternative aspects of the present invention, the guide surface 70 may generally extend downward from the plane of the resting surface 50. The downward extension of the resting guide surface 70 may be gradual, as shown in Figure 1 or 2. Alternatively, as shown in Figures 5 and 6, and continuous elongated guide surface 77 may be at a more extreme angle. As shown in Figure 3, the apparatus of the invention may also include a detachable elongated guide surface 78 which acts as a bigger target area for the installer(s) to find with the leading edge of a sheet of building material and to further facilitate the guiding of building materials to the resting surface 50.

In another aspect of the present invention, the apparatus for installing building materials may include at least one fastener opening 60. The fastener opening 60 may be an opening that passes completely through the

apparatus 10. The fastener opening 60 has a diameter
sufficient to allow any type of fastener component to be
used with the apparatus. As used herein, "fastener
component" means any type of screw, nail, rivet, or bolt
5 that can be used to secure the apparatus or device
generally designated 10, 20 or 30 to an exiting structure
or support material. In this aspect of the invention,
the fastener may pass through the fastener opening 60 and
directly into a ceiling joist or wall stud, or first
10 through a piece of building material before then passing
into a ceiling joist or wall stud. The fastener
component may allow the apparatus 10 to be circularly
rotatable around its attachment point. The fastener
opening 60 may also include a metal sleeve(s) or
15 bushing(s) 65 in order to prolong the life of the device.
Once the device of the invention is removed, a drywall
screw is place into the hole left by the fastener, which
removes any evidence that a fastener component passed
through the building material. In an important aspect,
20 the fastener component used is a drywall screw.

Another aspect of the present invention is shown in
Figure 4, where the apparatus includes a clamp adaptor 35
and does not include a fastener opening. In another
aspect, as shown in Figure 11, the apparatus may include
25 both a fastener opening 60 and clamp adaptor 35. As used
herein, the term "clamp" includes all clamp designs that
can or could be modified to fit onto or be incorporated
as an integral part of the design of the present
invention. Examples of clamps include "C"-clamps, vice-
30 grip, bar-clamps, and pony-clamps. The use of a clamp in
combination with an apparatus of the invention that
includes a clamp adaptor is shown in Figures 11, 12 and
14

As shown in Figure 5, the device generally
35 designated 210 of the present invention may also include
a continuous elongated guide surface 77 and a second

continuous guide surface 76 that are perpendicular to the plane of the building materials being installed. These guide surfaces 76 and 77 aid the installer in contacting building materials with the device. In another aspect of the invention as shown in Figure 5, the device may include a slightly raised surface 66 around the fastener opening 60. The raised surface 66 reduces the possibility of marking the building material during rotation of the device.

10 A more streamlined version of the device 220 is shown in Figure 6. In this aspect of the invention, the device 220 includes a resting surface 50 continuous with a guide surface 70 and a second continuous guide surface 76, and a second resting surface 55 continuous with an elongated guide surface 77.

Another aspect of the invention is shown in Figure 6 where the apparatus 220 includes an anti-rotational feature 211 which may allow the device to be clamped to a support structure. The anti-rotational feature 211 also serves as an easy locator when addressing the device to the support structure, and also facilitates locating the mounting of the device by placing the fastener opening 60 roughly in the center of a standard 2" wide joist. Further, the apparatus may also include an attachment opening 212 for attaching a positioning device, such a chord. Hence, the measurements of the device are effective for properly locating the device to facilitate installation of building material.

Referring to Figure 7, there is shown a means of adding another support surface 223. In this instance, the support surface 223 is shown as being attached via screws 222 and a slot 221 which allows adjustment of the location of the support surface 223. It is understood that a person skilled in the design can easily design other means of adjustment for this additional surface and these means are hereby included. This feature can be

used as an extra pair of hands in supporting a framework that requires holding in place temporarily prior to permanent attachment, hence, allowing the carpenter to operate hands free.

5 Referring to Figure 8, this figure shows a preferred one piece device generally designated 420. This device can be made from wood, molded from plastic, filled plastic, powdered metal or cast in metal. The device 420 includes a continuous elongated guide surface 77, a second
10 continuous guide surface 76, an anti-rotational feature 211 and a fastener opening 60. If the device is made in plastic then it optionally may include an inserted bushing in the fastener opening 60. In devices made of powdered metal or metal this feature would not be required.

15 Various aspects of the invention that include the use of the device in combination with a clamp are shown in Figures 9 through 15. Many styles of clamps are manufactured by various manufactures including Stanley, Craftsman, Wolfclamp, Pony clamp, Jorgenson, Bessey, Vice
20 Grip, American Tool, plus numerous others which are hereby included in this invention. In an important aspect of the invention, the clamps used include bar clamps, quick grips, power press, cabinet clamp, euro claw, deep reach bar clamps, k-body clamps, vice grips,
25 hand clamp, pony clamps, jorgenson clamps, c-clamps, ratchet clamps, and various other names and styles of these clamps with or without manufactures names that can readily be adapted or designed to accommodate, or have, the features of any or all of the above devices; and, are
30 hereby included in this invention,

As shown in Figure 9, the device may be used in combination a hand-clamp 352 for use during the installation of sheet building material to metal studs. Both jaws have a pivoting feature 57 and 58 that permit
35 the clamp surfaces to be parallel to each other when closed. As further shown in Figure 9 is a folded

surface 79 continuous with the elongated continuous guide surface 77. The folded surface 79 eliminates a sharp edge when using this style of device to install building material against a wall.

5 The device of the present invention 320 in combination with a pair of vice grips 350 is shown in Figure 10. The vice grips 350 may include serrated teeth 330 useful for biting into wooden joists to more firmly secure attachment of the vice grips 350 to a joist. The
10 serrated teeth 330 may include a single point, multiple teeth, or any other design that would dig into a joist and be effective for securing the clamp to the joist.

 The device of the present invention in combination with a "C"-clamp is shown in Figure 11. Figure 11 shows
15 a device of Figure 8 where the anti-rotational feature 211 is replaced with a clamp adaptor 35. The clamp adaptor 35 provides a surface where a "C"-clamp 354 can contact the device to secure it in place.

 Referring to Figure 12, this Figure shows a device of
20 Figure 4 in combination with a bar-clamp 355. In this aspect of the invention, the device includes a clamp adaptor 35 whereby the device can be slid onto one of the jaws of an existing style of bar-clamp 355. The opposing jaw of the bar-clamp may include an antislip feature 442.
25 The antislip feature 442 may include single or multiple protrusions effective for securing the clamp to a wooden joist to prevent sliding of the clamp.

 Another aspect of the device of the present invention is shown in Figure 13. The device of the 430
30 may be integrally combined with a bar-clamp 355 such that the device 430 and modified bar-clamp 355 are one piece. As shown in Figure 13, both jaws are shown as having an antislip feature 442 which is effective for biting into a joist and preventing slippage. With a bar-clamp as
35 shown in this Figure 13 and Figure 12 one of the jaws is stationary and generally part of the bar; while, the

other moveable jaw 356 is moveable by means of a squeezing action that is perpendicular to the bar, an example of which is a quick-grip type clamp. Other styles of bar-clamps actuate the moveable jaw by a squeezing action parallel with the bar, an example of which is a EZ-hang type clamp and by means of a thread clamp such as a c-clamp.

Referring to Figure 14, this figure shows another style of bar-clamp known as a Jorgesen clamp in combination with a device of Figure 4. The moveable end 358 is first moved to a snug position then tightened up using the jaw mounted on a thread 357 by turning the handle 359.

Another aspect of the invention is shown in Figure 15. In this figure an apparatus generally designated 440 is shown in combination with a clamp known as a "pony clamp". The fixed end 371 of the clamp is screwed on to a piece of black pipe with the adjustable jaw 370 slid on to the pipe. The rough adjustment is done with the adjustable jaw 370 and the final tightening by cranking the handle on the fixed end. It is to be understood that any of the devices shown could be used in combination with any clamp either attached or as an integral part of the device of the invention.

Various aspects of the use of devices of the present invention are shown in Figures 16-25 and positioning of the device of the present invention is shown in Figures 16-18. As can be seen in the Figures, each apparatus of the invention is positioned to facilitate installation of the first or next piece of building material. Referring to Figure 16, in this figure two pairs of styles of devices are shown in ceiling location ready to have a sheet of building material put in place. One device of each set is mounted on the ceiling joists 130 and the other mounted through the drywall 120 and into the ceiling joists 130. One style comprises of a pair of

devices as reflected by 10 and 30; and the other pair's style are reflected by 210 and 220.

Referring to Figure 17, this figure shows an installer 380 marking the location 514 on the ceiling joist 130 using a rule that is forty-eight and a half inches long. This distance is measured from the edge of a wall or a previously installed sheet. The half inch play is more than enough to place the sheet flush with the ceiling joist and leave little distance to move the sheet in order to put it in place for attachment. most sheets of material are 4' x 8' long or 4' x 12' long; but, the metric equivalent of sheet sizes would be allowed for by a rule half an inch longer than the width of the metric standard for building material sheeting.

Another means of locating the device 320 to ceiling joist 130 is shown in Figure 18. As shown, a flexible length of material 512 by holding a the predetermined mark on the flexible material against either the wall or previously attached sheet stretching it to its limit and attaching in this figure the clamp 320. Positioning of building material may be accomplished using a positioning device such as a chord 512 and/or measuring device 510.

Installation of the building material 120 is shown in Figures 19A-D. Referring to Figures 19 a, b, c & d, these views show a preferred method of installing building material sheets on a ceiling. In this illustration the installer 380 is putting up drywall. After marking the location and installing the devices the drywall 120 is lifted in the near vertical to vertical position and the top edge is engaged with the guide surface of the devices. Building material is then lifted up till it hits the ceiling joists, at which time maintaining a upwards pressure locate the leading edge of the drywall into the pockets created by the devices and ceiling joists as shown in Figure 19b; and, rotate as shown in Figure 19b into the horizontal position as shown

in Figure 19c. Then the device 210 is rotated into position to support the sheet of drywall 120. Then the installer is hands free to use his screw gun 360 to permanently mount the sheet of drywall as shown in Figure 5 19d. When using these devices on an eight foot long sheet it is recommended that two sets of the devices be used; and, on a twelve foot long sheet three sets of these devices be used.

A method for installing building material on a wall 10 is illustrated in Figure 20. In accordance with the invention, an installer first marks the locations for mounting the device of the present invention using a measuring device 510. One of the marks made by the installer is just over four feet and the other at four 15 feet and a half inches down from the ceiling. The devices of the inventions, shown as 20 and 220 are secured into position. Other devices of the invention may be used, for example, device 40 in combination with a clamp, device 420, device 320 as shown in Figure 10, and 20 device 430 in Figure 13. The drywall 120 is placed into pockets created by the device of the invention and studs, and rotated into a vertical position. Then using a tee bar 520, the drywall 120 is manually raised so that the top edge of the drywall is flush with the ceiling. In a 25 typical installation, the ceiling panels may already be in place, whereas, Figure 20 shows an open ceiling.

An alternative method of raising building material is shown in Figures 21 and 22. Instead of using a tee-bar or manually raising the material, the material may be 30 raised using a cam device as shown in Figure 21 by rotating handle 432. With rotation, the excetric cam 434 raises the drywall 120.

Referring to Figure 22, this figure shows another alternative method of raising a sheet of drywall 120 via 35 another design of cam 436 which rotates around the mounting

feature 62; and, by the means of twisting the cam using web
438 the drywall sheet is raised.

An alternative use of the device of the present
invention is shown in Figure 23. In this figure, a device
5 with an adjustable additional surface 224, as illustrated
by the feature in Figure 7, is shown attached to a ceiling
joist 130 and acting as an extra pair of hands to hold the
frame work 610 while framing out ductwork 612, thus leaving
the installers hands free to adjust and secure the
10 framework.

Another use of the device of the present invention
is shown in Figure 24. In this figure a pair of the
devices 10 are used to support and place long tongue and
grooved planks 620 into a location against ceiling joists
15 130, thus, freeing up the installer to secure the planks.
It is understood that anybody skilled in the art of
construction can readily see using these devices to mount
numerous types of building materials on walls or
ceilings. Although the devices designated 10 are shown in
20 the figure it is understood that it could just as easily
be the device of Figure 5 or Figure 25 and are thereby
included in this invention.

Referring to Figure 25, this figure shows a preferred
one piece device generally designated 410. This device can
25 be made from wood; molded from plastic; filled plastic;
powdered metal or cast in metal. reflected are the three
guide surfaces 70, 76 and 77, on both sides of the fastener
opening 60. As shown in this figure one set of the
surfaces is spaced at distance from the adjacent surface
30 that contacts the structure surface to which the device is
mounted. If the device is made in plastic then it possibly
may include an inserted bushing. In powdered metal or metal
this feature would not be required. Also shown is a raised
area 66 which is not essential to the device provides a
35 added advantage of reducing possible marking of the
building material surface when being rotated into position.

Referring to Figure 26, this figure shows an adjustable tee support comprising of a head piece 720 two tubular vertical support piece 722 and 724 which slide one inside the other. Holes 721 and 723 that allow a pin 725 to
5 be placed through both tubes in order to facilitate different heights of use; and, although not necessary for the function of the tee-bar a boot 726 with a roughened base 727 to stop marking the floor. It is understood that anybody skilled in the art could modify the design with a
10 removable head to facilitate storage or transportation, add a coating to the head or make it out of a material that will reduce or eliminate marking the building material, or make the head with limited rocking ability.

Referring to Figure 27, this figure shows an
15 additional feature of the present invention for adding space between the apparatus of the present invention and the building material being installed. This feature provides the installer with the ability to install a variety of different thicknesses of building material with
20 the same basic device. In this figure three designs of height block 810a, 810b and 810c are shown. The height block 810a shows an extrusion with a clearance hole 62 for the means of mounting the device to the structure. The height block 810b is a block with mounting holes 64
25 and clearance hole 62. The height block 810c shows a design with clip on feet 812 and a clearance hole 62.

Referring to Figure 28, this figure shows the device of Figure 26 having two sets of the same guides 76 and 70. Also two surfaces 50 with a center mounting post
30 and means of attachment 66 mounted at right angles to the ceiling joist 130. An additional stop 82 is added to give the required gap for the building material to be inserted. In accordance with the invention, building material is raised vertically to near vertical to contact
35 guide surface 76. The building material is lifted and rotated into position and device 410 is rotated to

support the building material. Further shown is an
alternative bar clamp design in which the jaws open
instead of close. It is understood that any competent
designer can add this feature to many of the designs of
5 clamp and are hereby included in this invention.

Numerous modifications and variations in practice of
the invention are expected to occur to those skilled in
the art upon consideration of the foregoing detailed
description of the invention. Consequently, such
10 modifications and variations are intended to be included
within the scope of the following claims.

WHAT IS CLAIMED IS:

1. An apparatus for installing building materials comprising at least one resting surface spaced apart from a fastener.
- 5 2. The apparatus of claim 1 further comprising at least one guide surface.
3. The apparatus of claim 2 wherein the guide surface is continuous with the resting surface.
4. The apparatus of claim 2 wherein the apparatus
10 comprises a resting surface opposite a guide surface.
5. The apparatus of claim 2 wherein the apparatus comprises a resting surface opposite a second resting surface.
6. The apparatus of claim 2 wherein the guide
15 surface is continuous with an elongated guide surface.
7. The apparatus of claim 1 wherein the fastener is a fastener opening in combination with a fastening component.
8. The apparatus of claim 1 wherein the fastener is
20 a clamp adaptor.
9. A method for installing building material comprising:
positioning at least one apparatus for installing building materials;
25 attaching the apparatus to an existing structure;
positioning the building material on a resting surface;

positioning the building material to a desired location and temporarily securing the building material; and

permanently securing the building material to the
5 existing structure.

10. The method of claim 9 wherein the apparatus for installing building materials comprising at one resting surface spaced apart from a fastener.

11. The method of claim 10 wherein the apparatus
10 for installing building material further comprising at least one guide surface.

12. The method of claim 11 wherein the guide surface is continuous with the resting surface.

13. The method of claim 10 wherein the apparatus
15 comprises a resting surface opposite a guide surface.

14. The method of claim 10 wherein the apparatus comprises a resting surface opposite a second resting surface.

15. The method of claim 10 wherein the guide
20 surface is continuous with an elongated guide surface.

16. The method of claim 10 wherein the fastener is a fastener opening in combination with a fastening component.

17. The method of claim 10 wherein the fastener is
25 a clamp adaptor.

18. A system for installing building materials comprising at least one apparatus for installing building

materials; the apparatus for installing building material comprising least one resting surface spaced apart from a fastener.

19. The system of claim 18 wherein the apparatus
5 for installing building materials further comprising at least one guide surface.

20. The system of claim 19 wherein the guide surface is continuous with the resting surface.

21. The system of claim 19 wherein the apparatus
10 comprises a resting surface opposite a guide surface.

22. The system of claim 19 wherein the apparatus comprises a resting surface opposite a second resting surface.

23. The system of claim 19 wherein the guide
15 surface is continuous with an elongated guide surface.

24. The system of claim 18 wherein the fastener is a fastener opening in combination with a fastening component.

25. The system of claim 18 wherein the fastener is
20 a clamp and the clamp is an integral part of the apparatus.

26. The system of claim 18 wherein the fastener is a clamp adaptor.

27. The system of claim 26 wherein apparatus for
25 installing building material is used in combination with a clamp.

28. The system of claim 27 wherein the clamp is selected from the group consisting of c-clamps, pony clamps, Jorgensen clamps, EZ hold clamps, bar clamps, power press clamps, cabinet clamps, euro claw clamps, 5 deep reach bar clamps, k-body clamps, hand clamps, ratchet clamps, quick grip bar clamps, vice grip clamps, and combinations thereof.

29. The system of claim 28 wherein the clamp is effective for penetrating into a support structure and 10 securing the apparatus in place.

30. The system of claim 18 wherein the apparatus for installing building material further comprises an anti-rotational feature.

31. The system of claim 18 wherein the apparatus 15 for installing building material is made from a material selected from the group consisting of wood, metal, plastic, and combinations thereof.

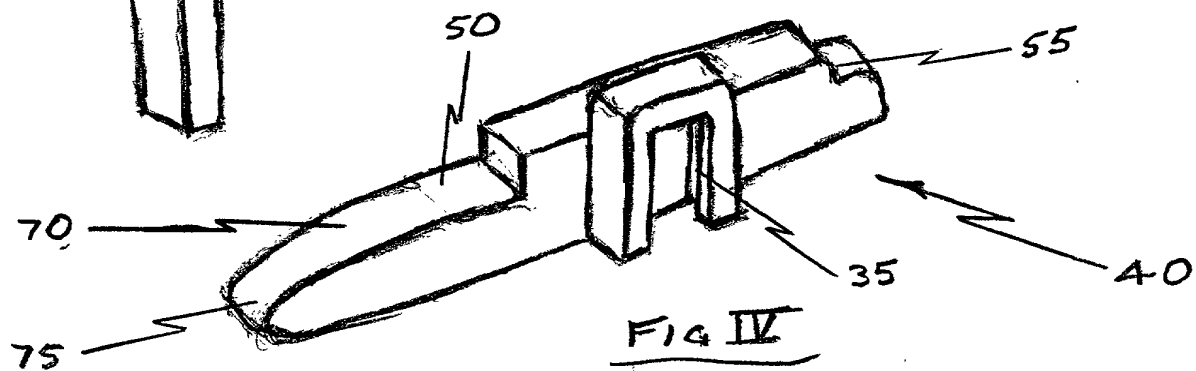
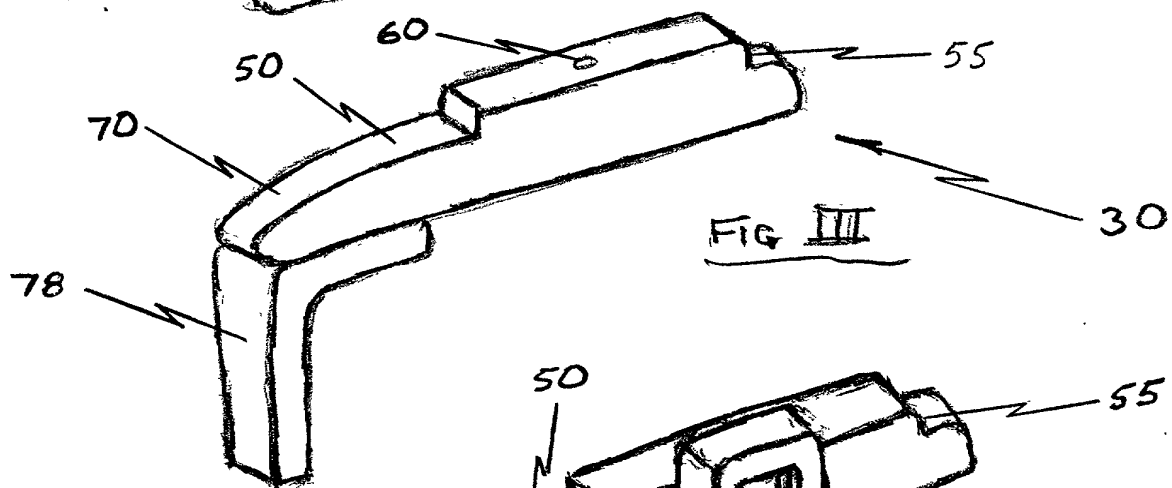
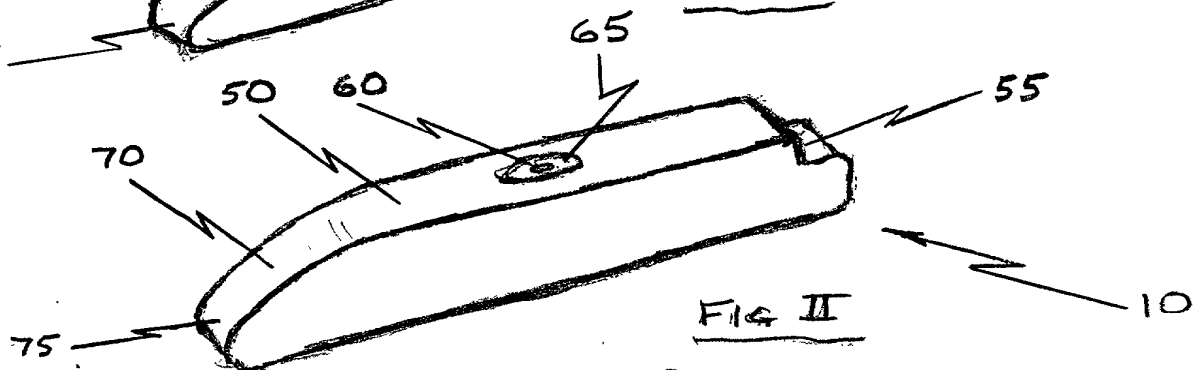
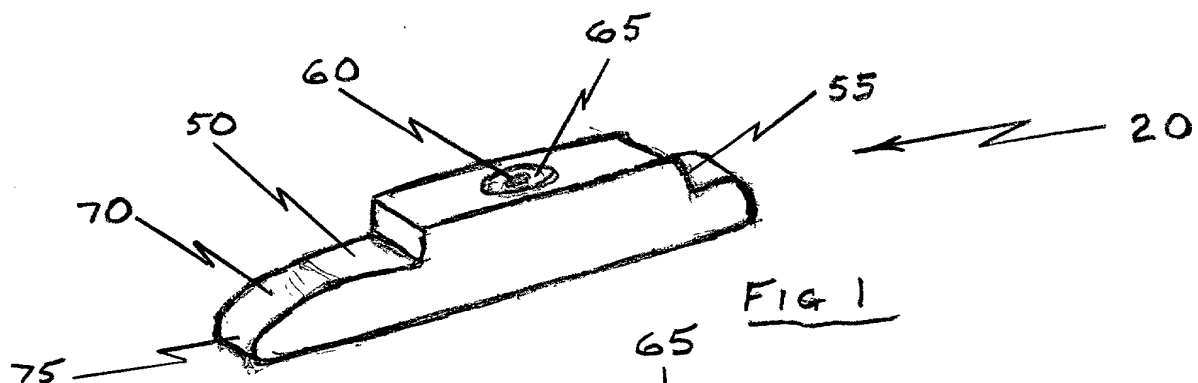
32. The system of claim 18 further comprising a positioning device.

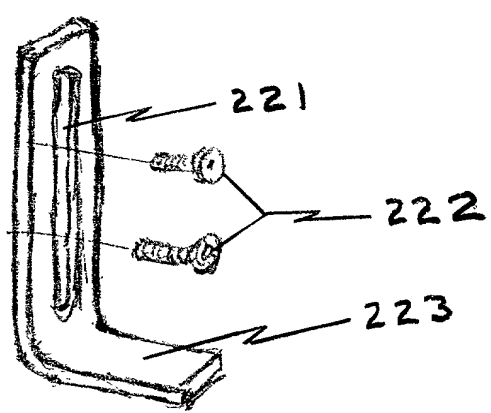
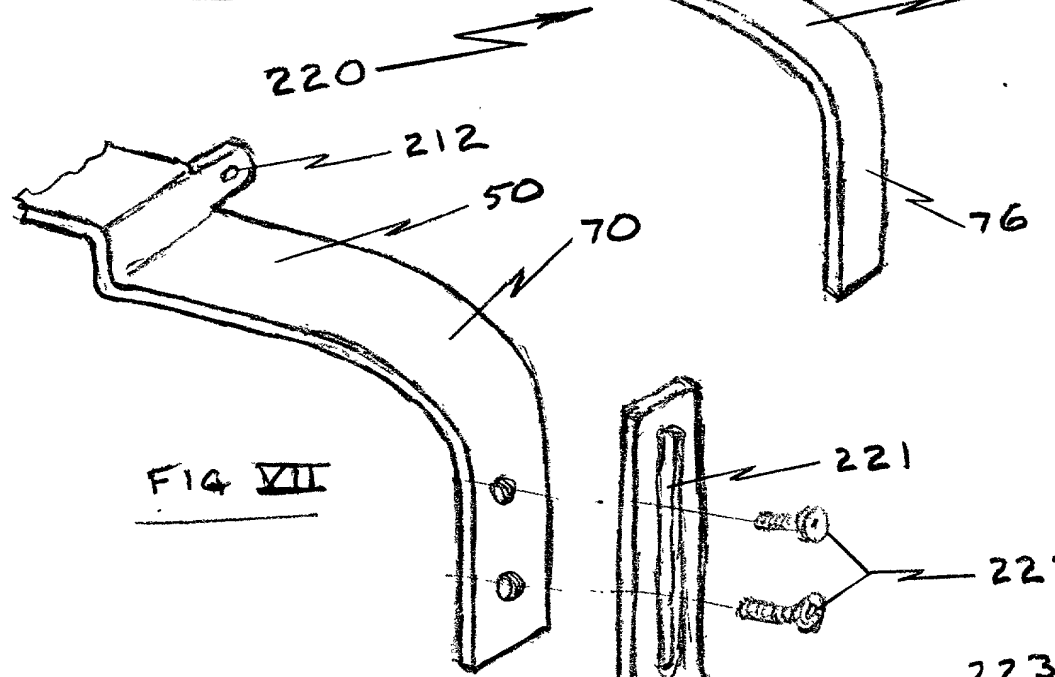
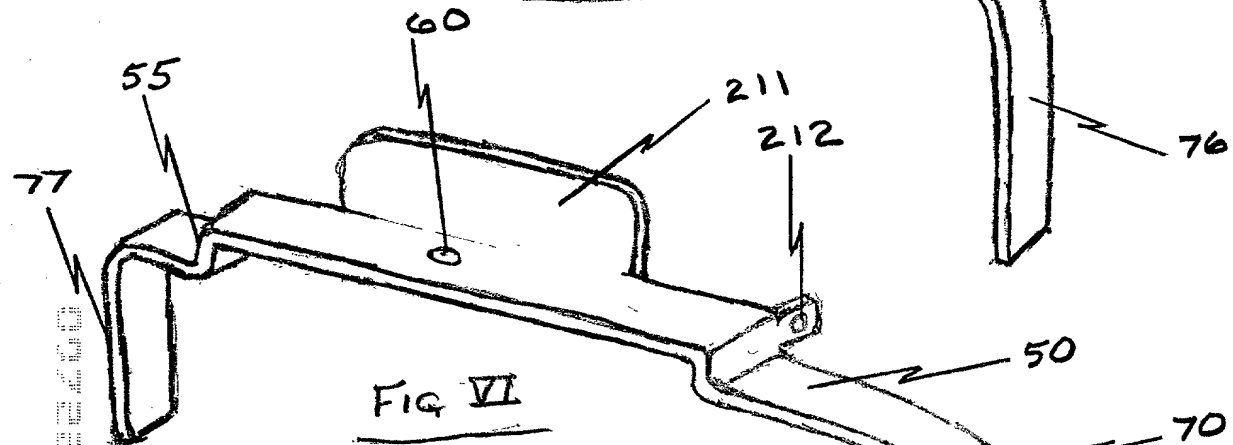
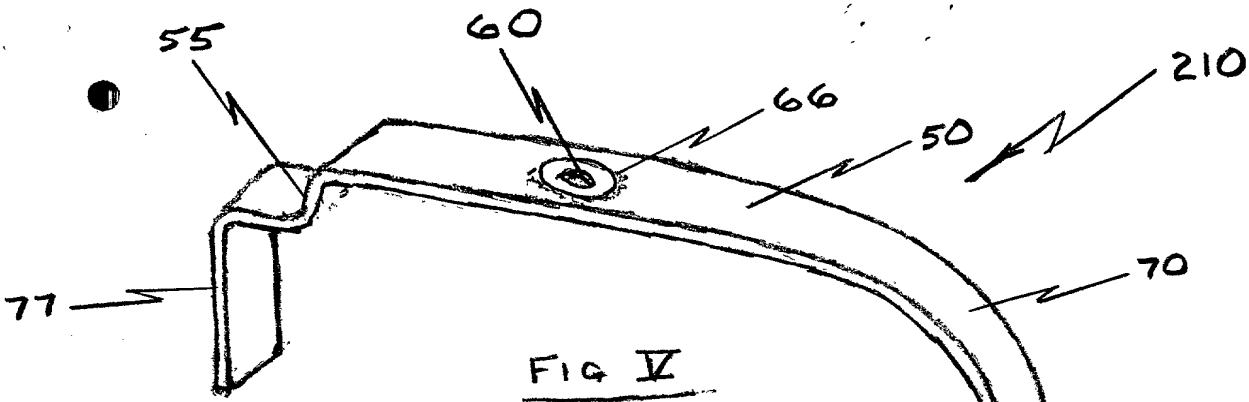
20 33. The system of claim 18 further comprising an adjustable tee support.

34. The system of claim 18 further comprising a height block.

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|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
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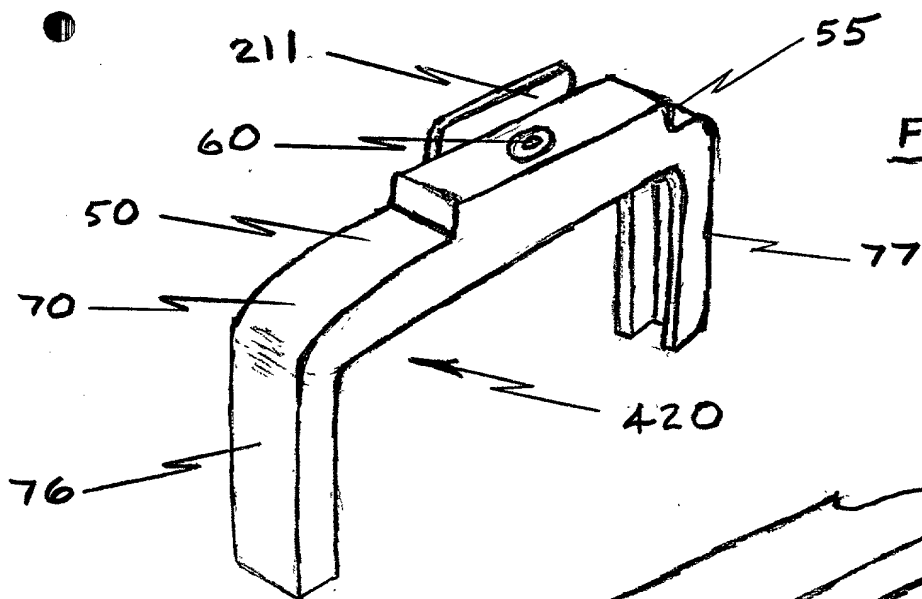


Fig VIII

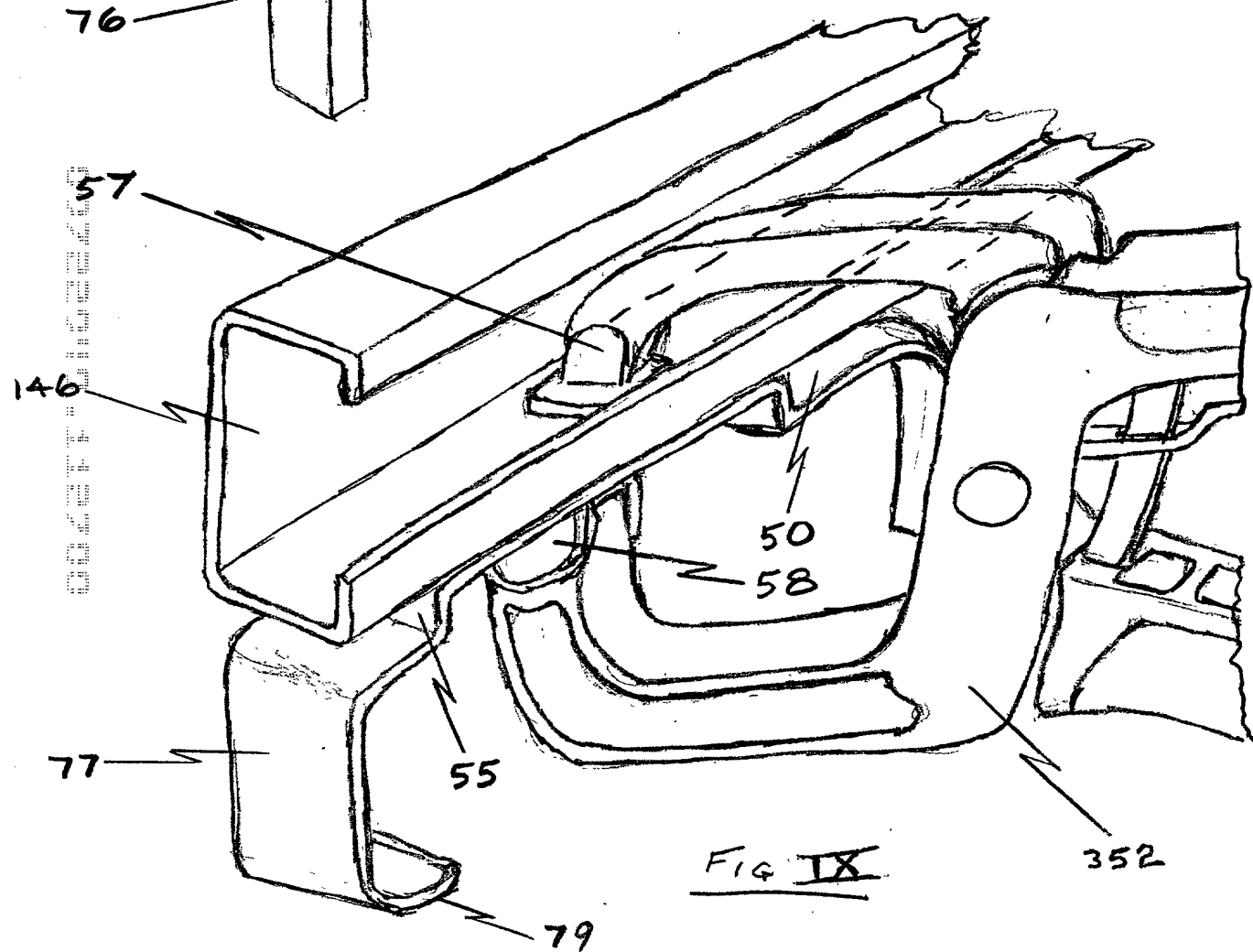
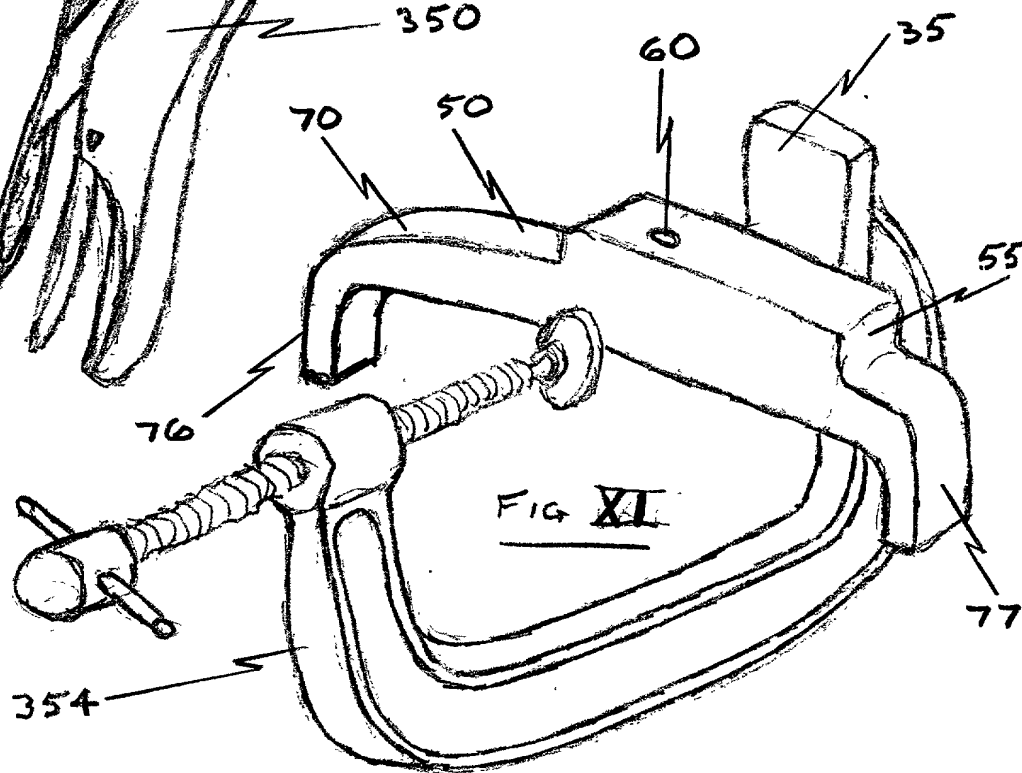
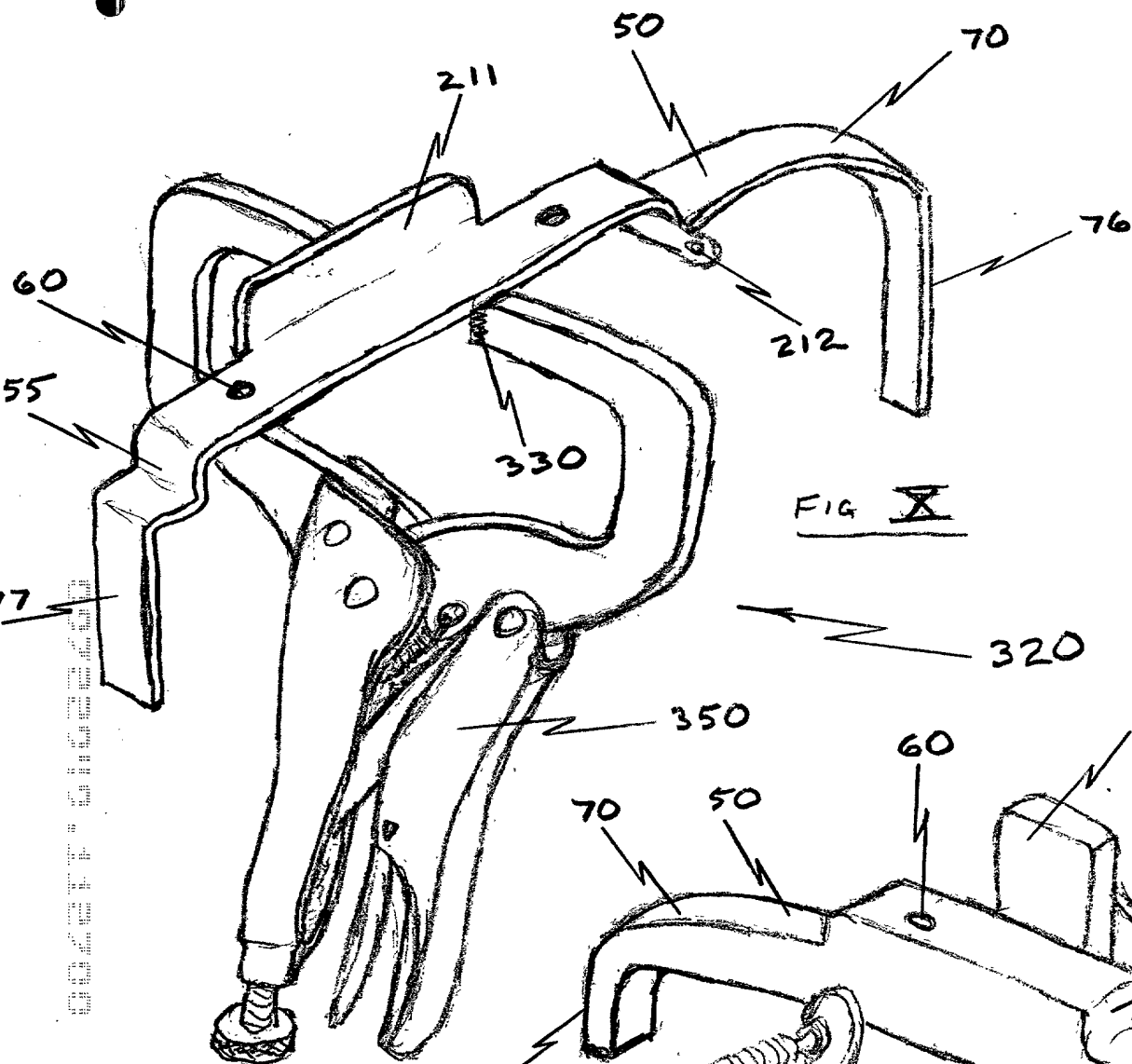
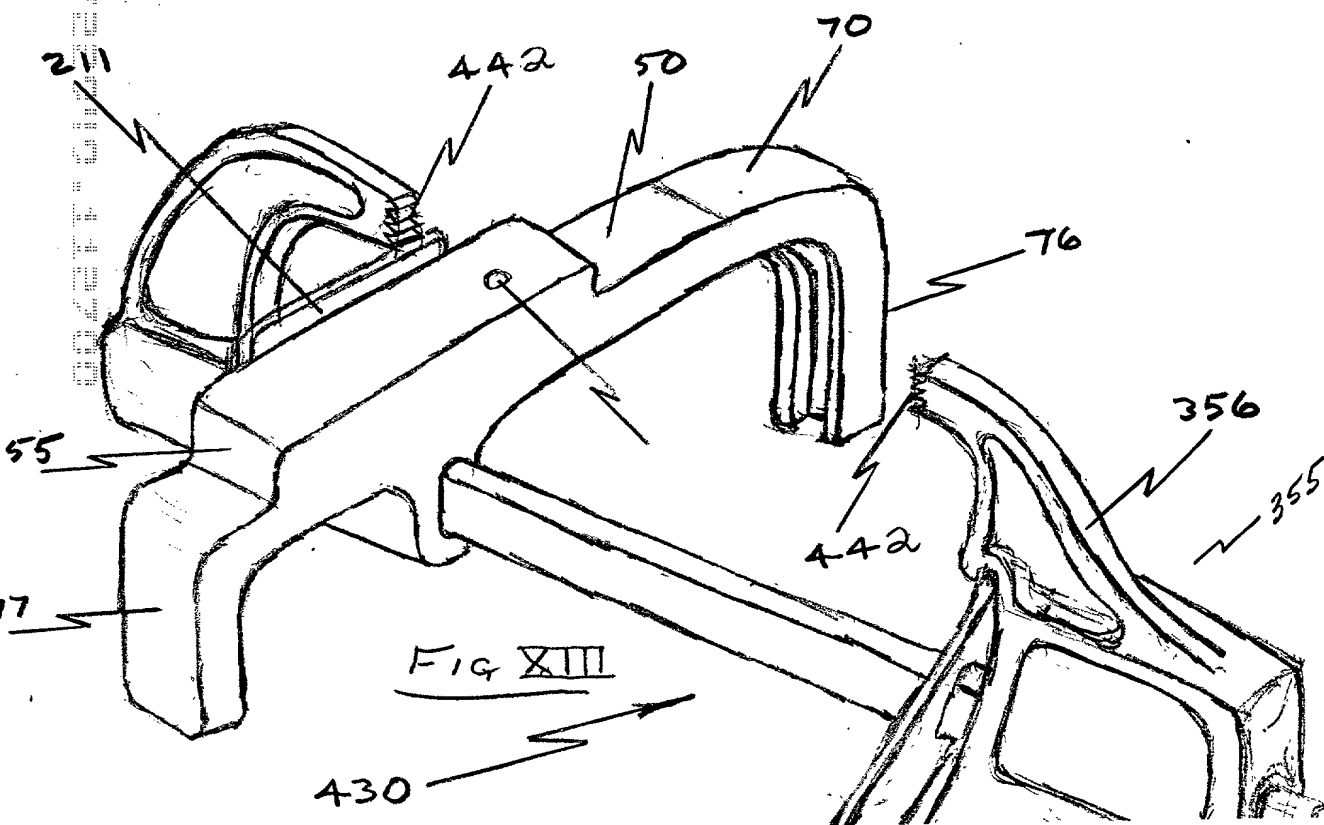
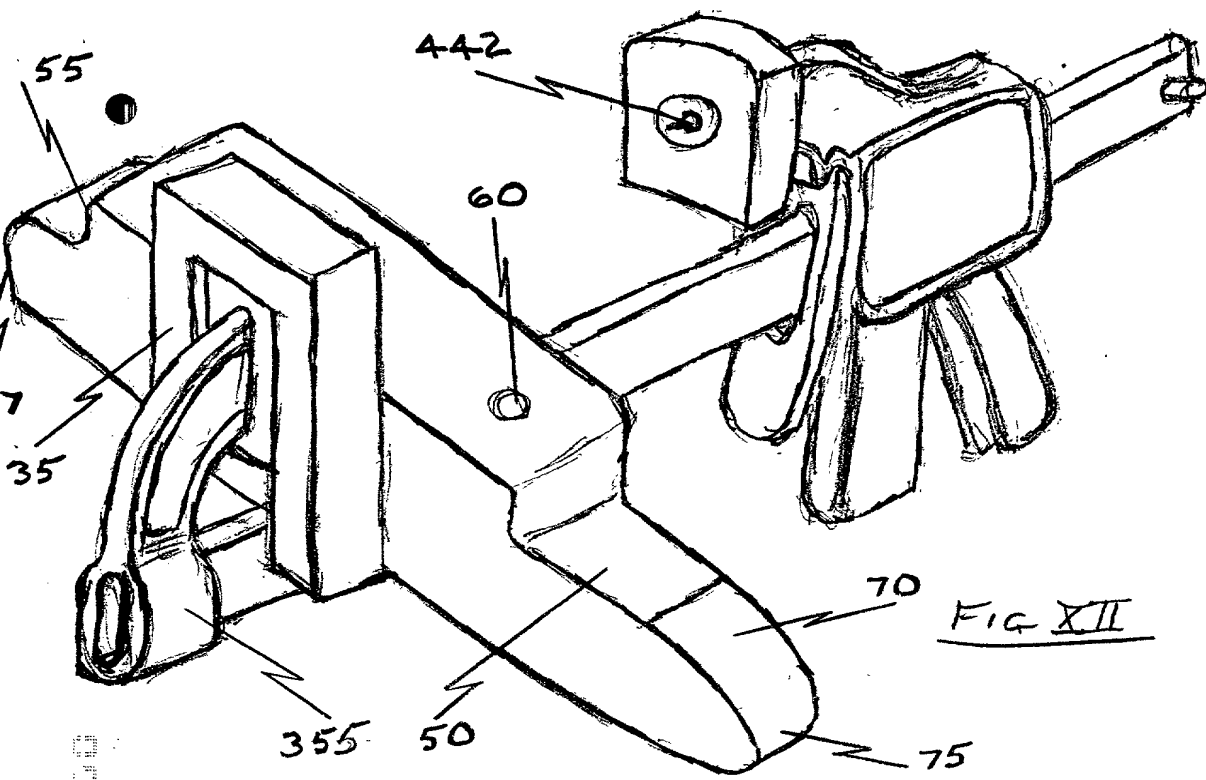
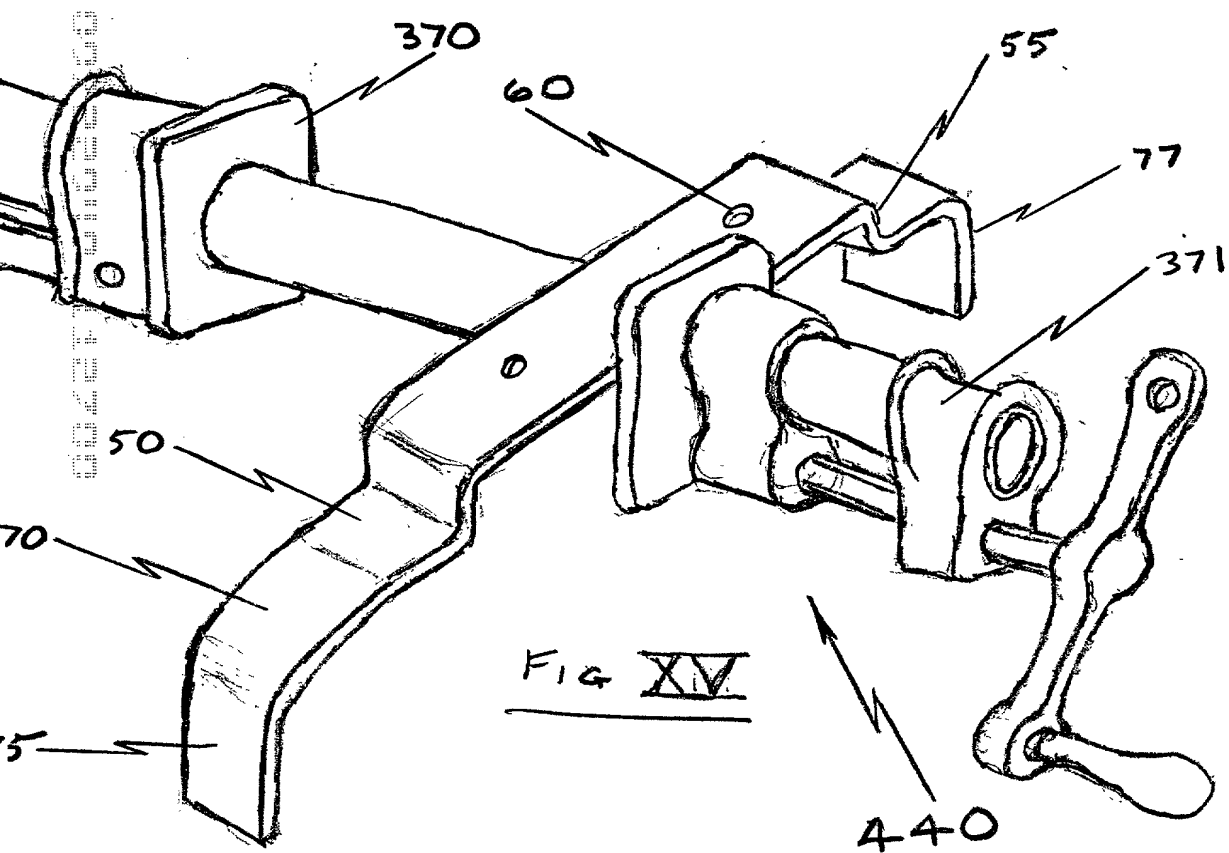
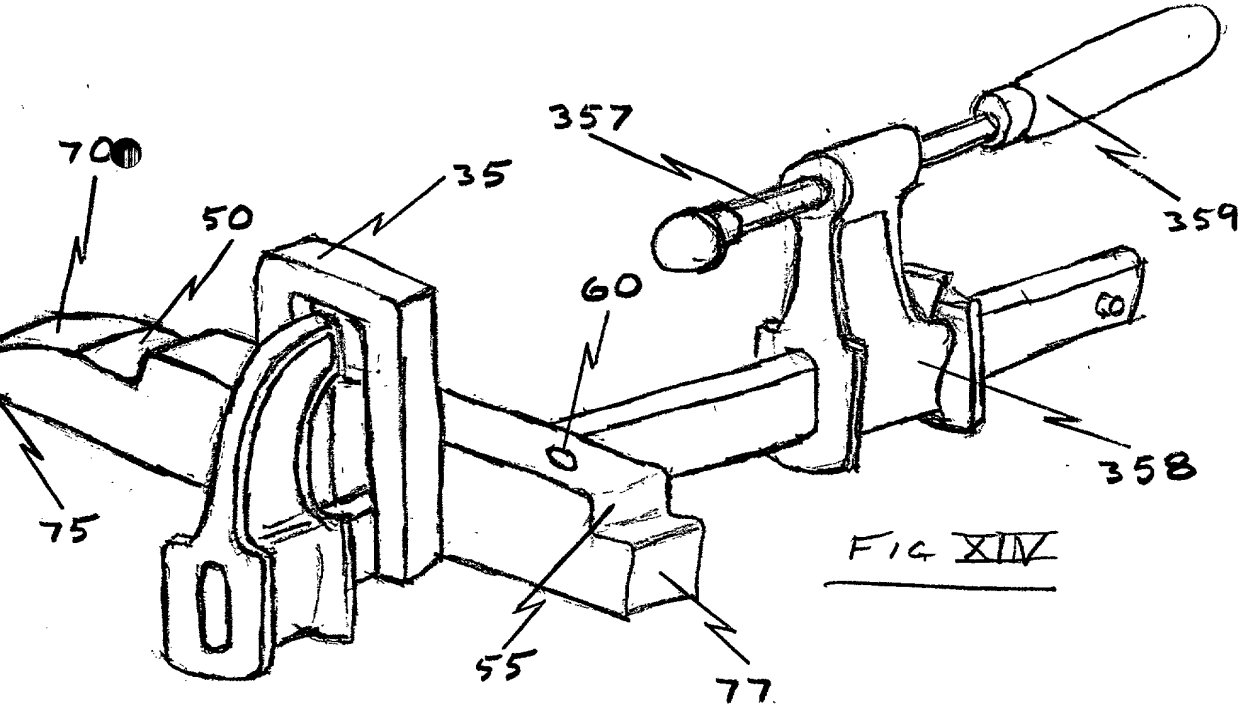
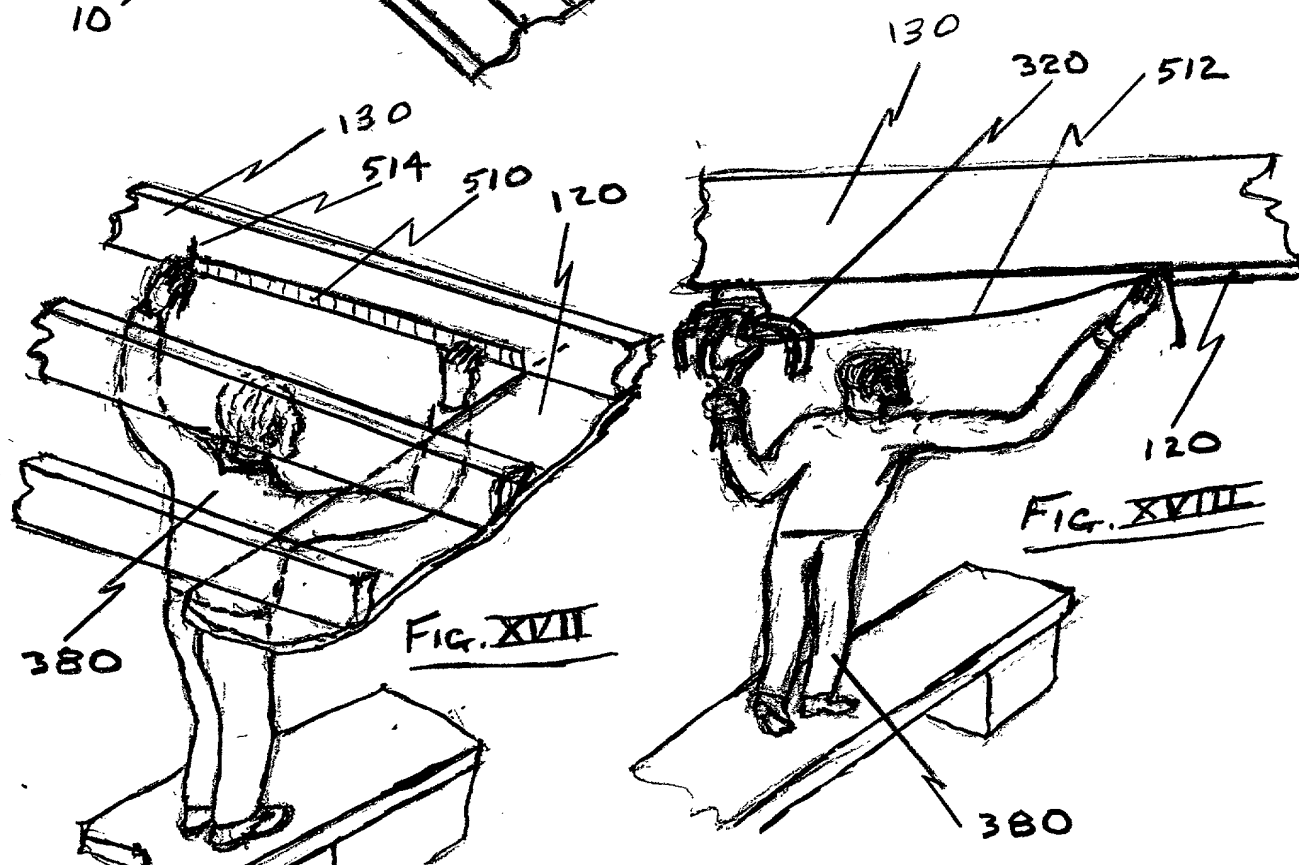
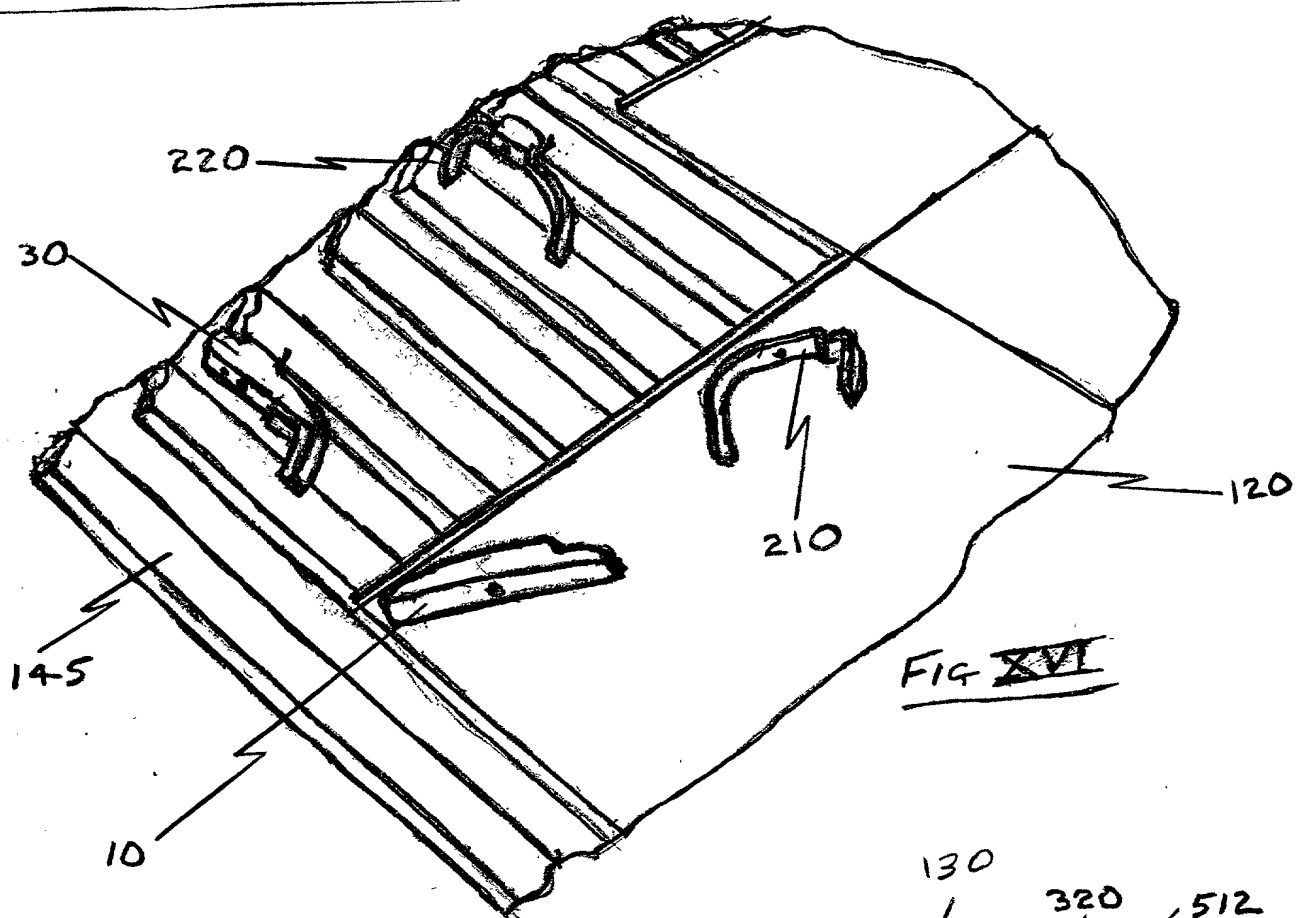


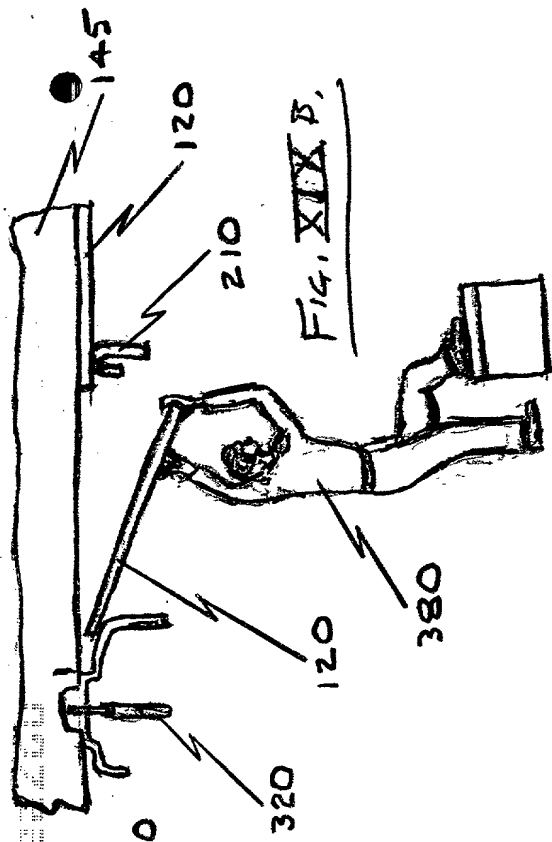
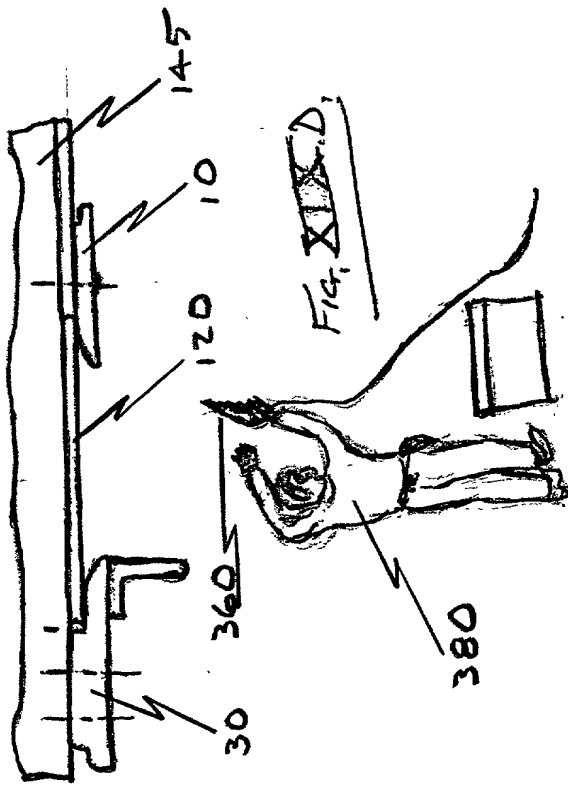
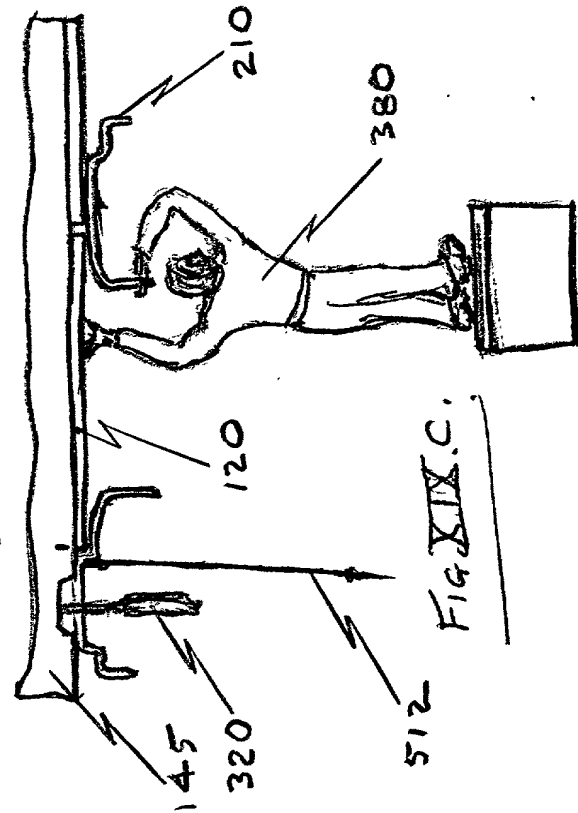
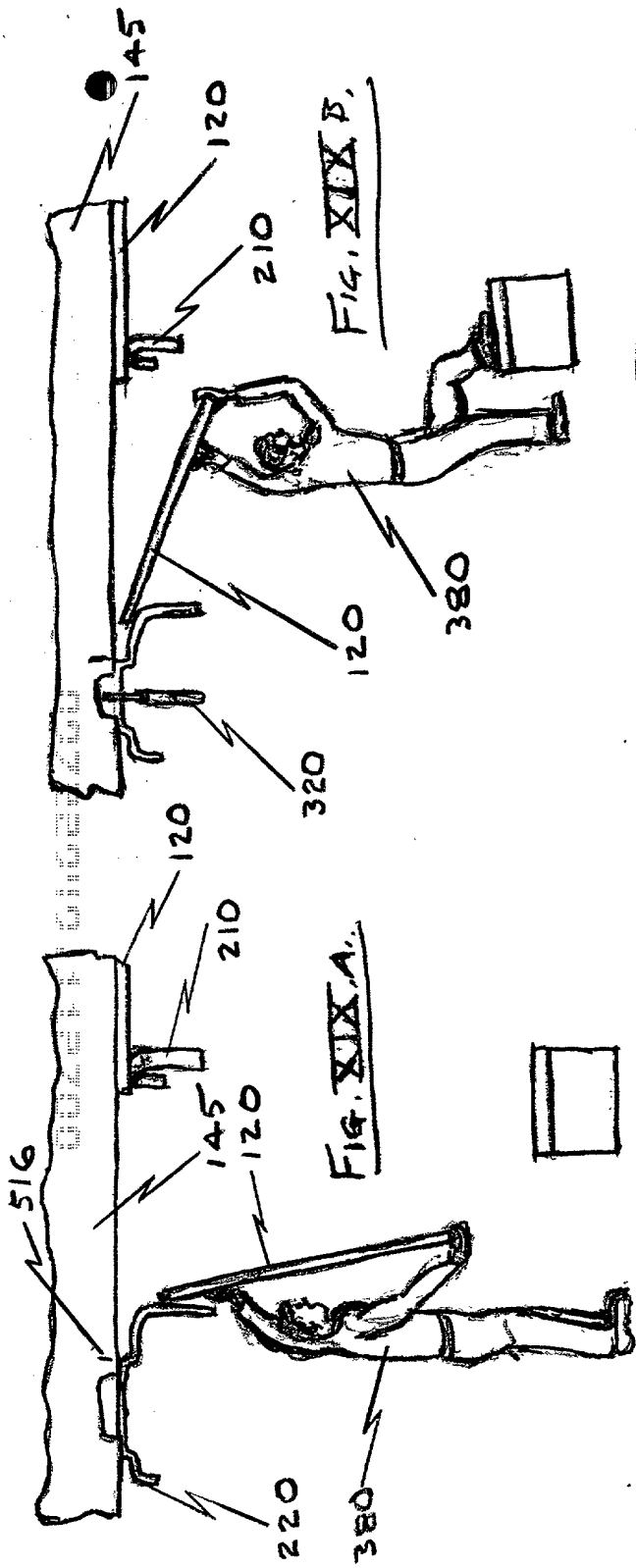
Fig IX











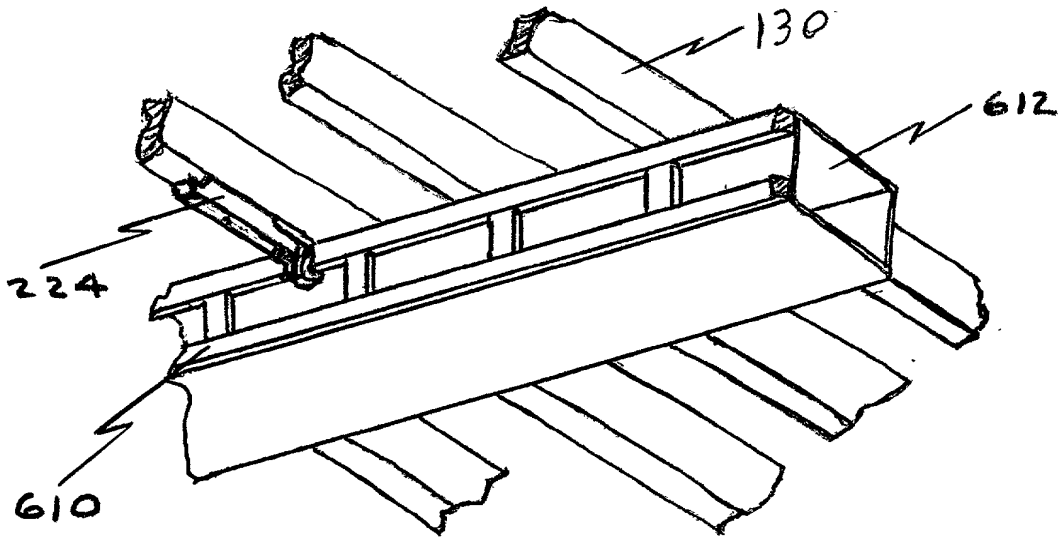


FIG. XXIII

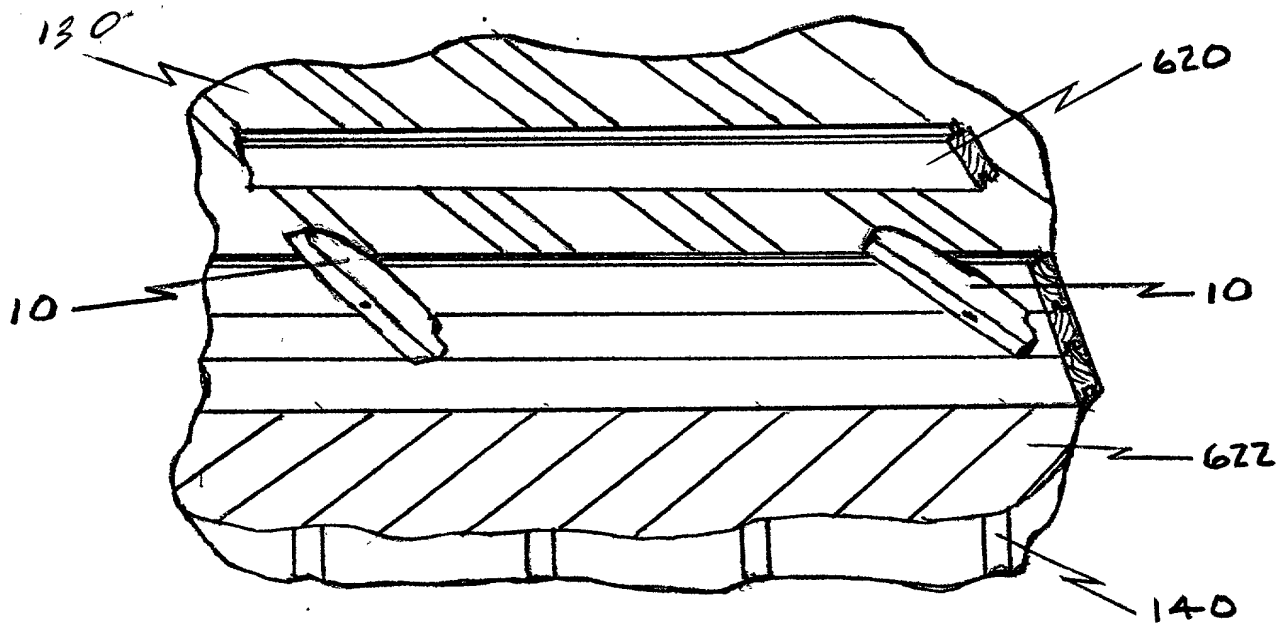


FIG. XXIV

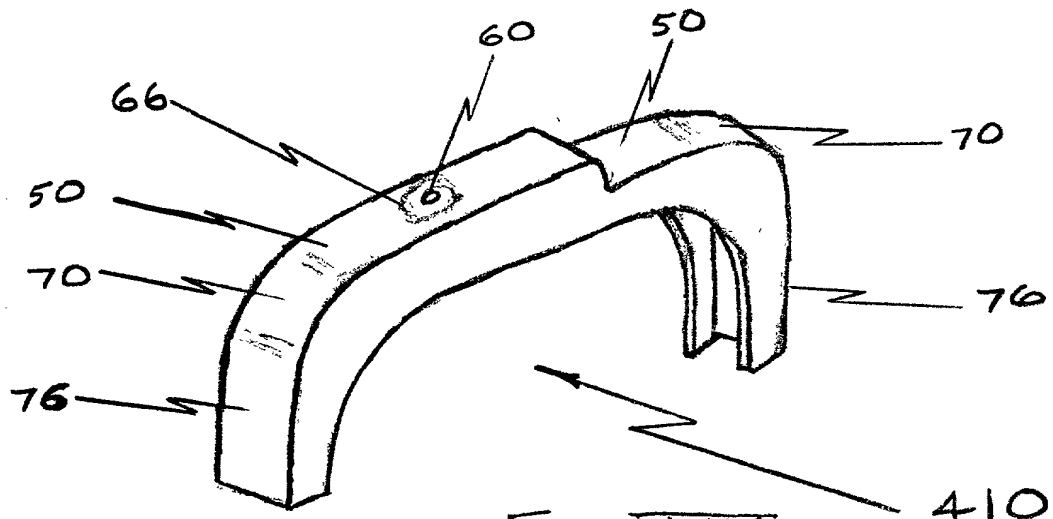


FIG. XXV 410

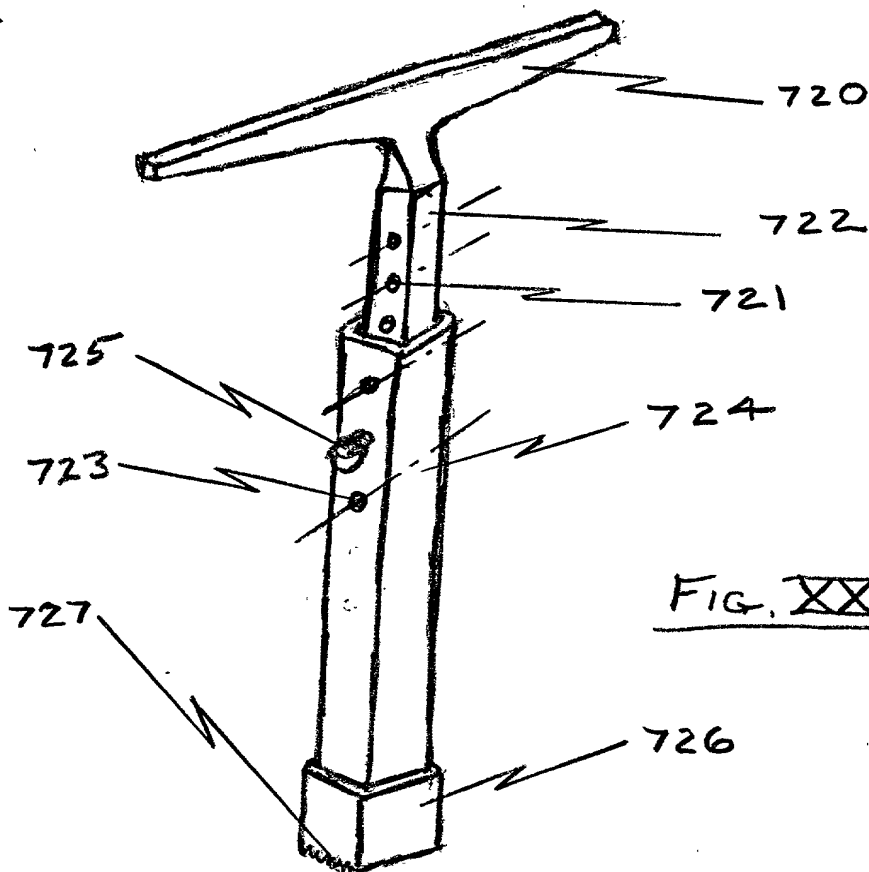


FIG. XXVI

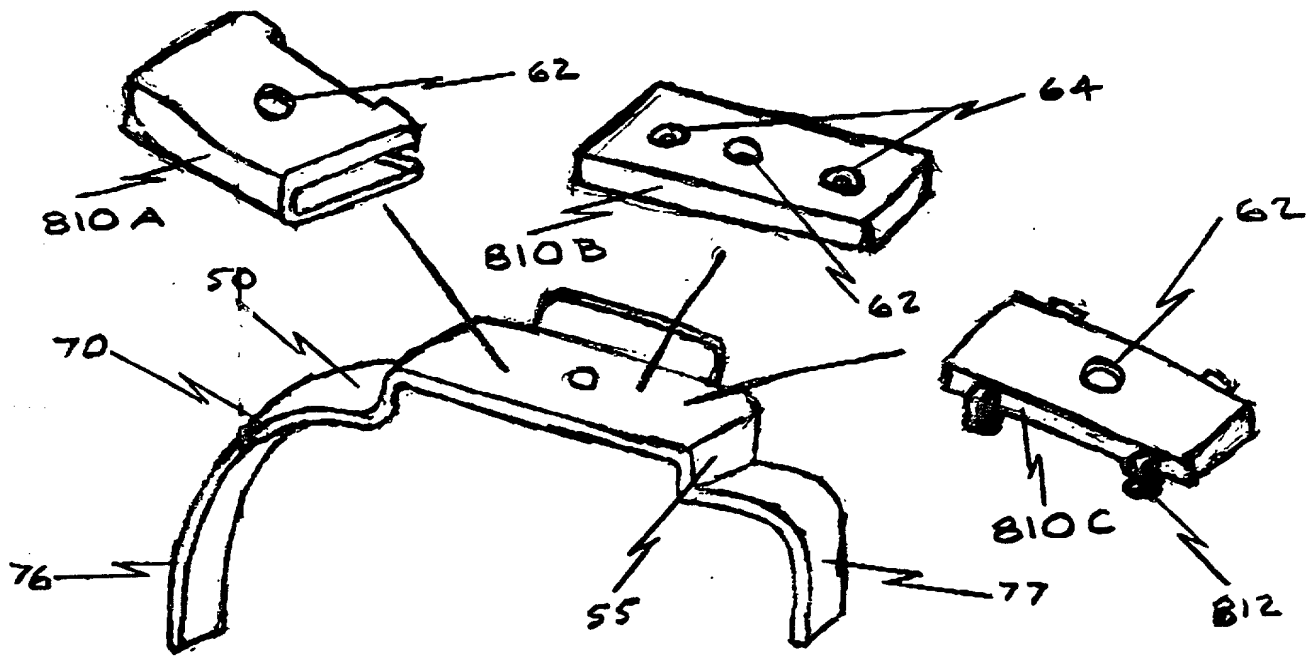


FIG. XXVII

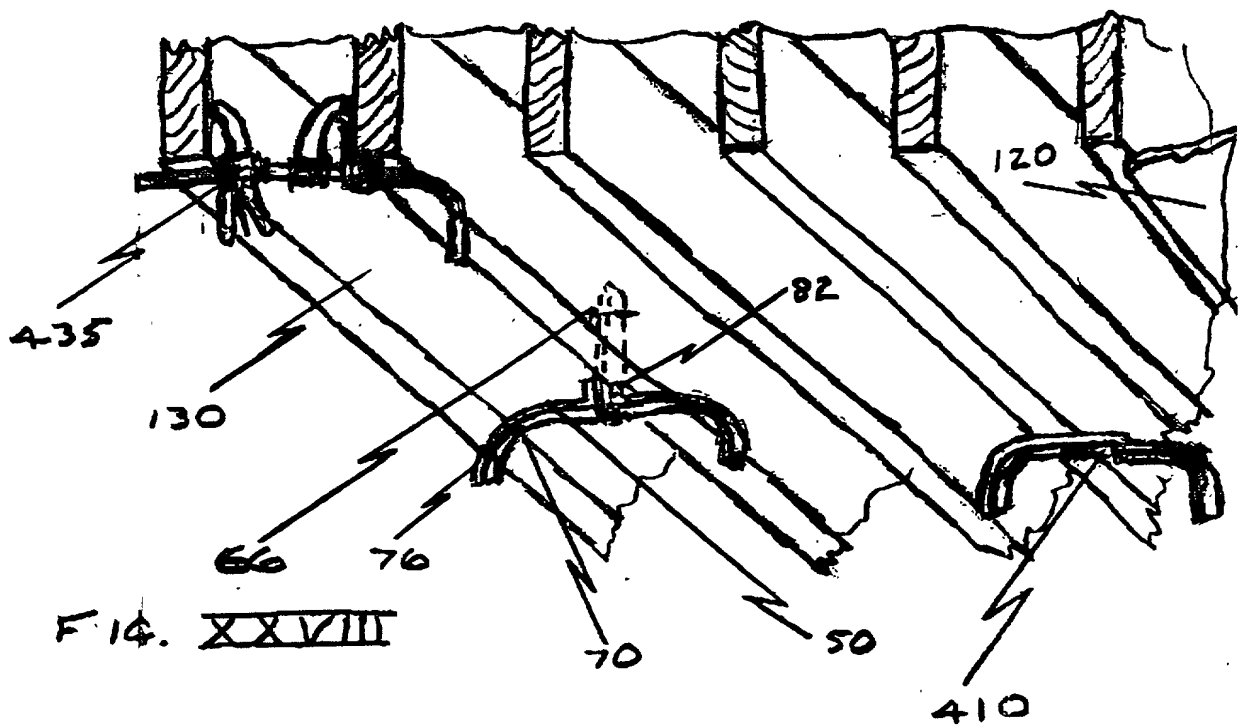


FIG. XXVIII

DECLARATION
FOR UTILITY OR DESIGN
PATENT APPLICATION

) First Named Inventor: Richmond

) Application Number:

X Declaration Submitted With Initial Filing
☐ Declaration Submitted After Initial Filing

) Filing Date: HEREWITH

) Group Art Unit:

) Examiner Name:

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DEVICE AND METHOD FOR INSTALLING BUILDING MATERIAL

(Title of Invention)

the specification of which:

(X) is attached hereto, or

() was filed by an authorized person on my behalf on _____ (Date)
as United States Application Number _____
or PCT International Application Number _____
and was amended on _____ (if applicable).
(Date)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below, and I have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application, on this invention filed by me or my legal representatives or assigns and having a filing date before that of the application on which priority is claimed:

| Prior Foreign Application Number(s) | Country | Foreign Filing Date | Priority Not Claimed | Certified Copy Attached | |
|---|---------|------------------------|--------------------------|----------------------------|--------------------------|
| | | | | Yes | No |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Provisional Application
Number(s)

Provisional Application
Filing Date

☐ Additional provisional application numbers are listed on a supplemental priority data sheet attached hereto.

I hereby claim the benefit under Title 35, United States Code, §120, of any prior United States application(s), or under §365(c) of any PCT international application(s) designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information known by me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

| Prior U.S. Application Number | Prior PCT International Application Number | Filing Date of U.S. or PCT International Application | Patent Number (if applicable) |
|----------------------------------|--|---|----------------------------------|
|----------------------------------|--|---|----------------------------------|

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet attached hereto.

As a named inventor, I hereby appoint the practitioners associated with Customer Number 22242, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, and request that all correspondence and telephone calls in respect to this application be directed to FITCH, EVEN, TABIN & FLANNERY, Suite 1600, 120 South LaSalle

Street, Chicago, Illinois 60603-3406, Telephone No. (312) 577-7000,
Facsimile No. (312) 577-7007, CUSTOMER NUMBER 22242.



I hereby declare that all statements made herein of my own knowledge are true, and that all statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity or enforceability of the application or any patent issued thereon.

Full name of sole or one
joint inventor:

Frank M. Richmond
(Given names first, with Family name last)

Inventor's signature:

Frank M. Richmond

Date:

27TH Nov. 2000.

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(Given names first, with Family name last)

Inventor's signature:

Date:

Residence:

(City and State for U.S. Residents;
City and Country for others)

Post Office Address:

Citizenship: